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| | APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|---|-----------------|-----------------|----------------------|-------------------------|------------------|--|
| | 10/766,654 | 01/27/2004 | Younger Ahluwalia | 03137.000005 | 3974 | |
| | 5514 | 7590 05/03/2006 | | EXAM | NER | |
| FITZPATRICK CELLA HARPER & SO 30 ROCKEFELLER PLAZA | | | & SCINTO | RUDDOCK, ULA CORINNA | | |
| | NEW YORK. | | | EXAMIN | PAPER NUMBER | |
| | , | | 1771 | | | |
| | | | | DATE MAILED: 05/03/2006 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application No. | Applicant(s) | | | |
|--|--|---|--|--------|--|--|
| | | 10/766,654 | AHLUWALIA ET AL. | | | |
| Off | fice Action Summary | Examiner | Art Unit | | | |
| | | Ula Ç. Ruddock | 1771 | | | |
| The fi Period for Repl | MAILING DATE of this communication a | ppears on the cover sheet w | vith the correspondence address | | | |
| • | | LVIC CET TO EVOIDE AN | AONTHIC OR THIRTY (20) DAY | 40 | | |
| WHICHEVE - Extensions of t after SIX (6) M - If NO period fo - Failure to reply Any reply recei | NED STATUTORY PERIOD FOR REP R IS LONGER, FROM THE MAILING ime may be available under the provisions of 37 CFR 10 ONTHS from the mailing date of this communication. If reply is specified above, the maximum statutory perio within the set or extended period for reply will, by statuted by the Office later than three months after the mail term adjustment. See 37 CFR 1.704(b). | DATE OF THIS COMMUN 1.136(a). In no event, however, may a d will apply and will expire SIX (6) MO tte, cause the application to become A | ICATION. reply be timely filed NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133). | | | |
| Status | | | | | | |
| 1)⊠ Respo | nsive to communication(s) filed on <u>07</u> | February 2006 | • | | | |
| | _ | is action is non-final. | | | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the mer | | | | | | |
| | in accordance with the practice under | | | 3 13 | | |
| Disposition of (| | - A parto Quayro, 1000 c | 5. 11, 100 0.0.210. | | | |
| _ | | | | | | |
| | s) <u>1-21</u> is/are pending in the application | | | | | |
| | the above claim(s) is/are withdr s) is/are allowed. | awn from consideration. | | | | |
| | s) <u>1-21</u> is/are rejected. | | | | | |
| | s) <u>r-21</u> is/are rejected. s) is/are objected to. | | | | | |
| | s) israre objected to. s) are subject to restriction and | los alaction requirement | | | | |
| | • | ror election requirement. | | | | |
| Application Par | pers | | | • | | |
| 9)∏ The sp | ecification is objected to by the Examir | ner. | | | | |
| 10)∏ The dra | awing(s) filed on is/are: a) ac | ccepted or b) objected to | by the Examiner. | | | |
| Applica | nt may not request that any objection to th | e drawing(s) be held in abeya | nce. See 37 CFR 1.85(a). | | | |
| Replac | ement drawing sheet(s) including the corre | ection is required if the drawing | g(s) is objected to. See 37 CFR 1.12 | :1(d). | | |
| 11) <u></u> The oa | th or declaration is objected to by the l | Examiner. Note the attache | ed Office Action or form PTO-152 | | | |
| Priority under 3 | 5 U.S.C. § 119 | | | | | |
| <u> </u> | • | ·· | S 440(-) (-l) (5 | | | |
| a) ☐ All | vledgment is made of a claim for foreig b)□ Some * c)□ None of: | in priority under 35 U.S.C. | 9 119(a)-(d) or (f). | | | |
| ·— | Certified copies of the priority docume | ata baya baan wasaiyad | | | | |
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| Attachment(s) | | | | | | |
| | erences Cited (PTO-892) | 4) 🔲 Interview | Summary (PTO-413) | | | |
| | tsperson's Patent Drawing Review (PTO-948) sclosure Statement(s) (PTO-1449 or PTO/SB/0 | | (s)/Mail Date Informal Patent Application (PTO-152) | | | |
| | fail Date 11/25/05. | 6) Other: | | | | |

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DETAILED ACTION

- 1. The Examiner has carefully considered Applicant's response filed February 7, 2006. The rejections in view of Horner, Jr. et al. (US 6,365,533) in view of Dimakis (US 5,345,738) have been overcome. However, after an updated search, additional prior art has been found which renders the invention as currently claimed unpatentable for reasons herein below.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

3. Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ahluwalia (US 5,965,257) in view of Langer (US 4,600,634). Ahluwalia disclose a structural article used in a wide variety of products including fire walls, vapor barriers, roofing underlayment, and facing sheets (col 3, ln 34-42). The articles comprise a substrate having an ionic charge which is coated with a coating having essentially the same ionic charge. The coating consists of a filler material and a binder material. The binder comprises an acrylic latex, specifically Hycar 2679 (col 3, ln 5-9). It should be noted that Hycar 2679 polymer emulsion contains synthetic soap, sometimes known as surface active agents or surfactants (col 7, ln 16-19), thus meeting Applicant's limitation of a surfactant component. Furthermore, because a surfactant is present in Ahluwalia's composition, surfactant-generated microcells would also be present in the material. The substrate is preferably fiberglass and the filler is selected from fly ash, charged calcium carbonate, and ceramic microspheres. The binder is preferably acrylic latex (abstract) or SBR latex (col 3, ln 11-12). Ahluwalia further discloses that it is well known to include clay as a filler material in structural

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articles in the building industry (col 1, ln 12-26). The articles are planar in shape and the substrate is coated on one side or both sides depending on the intended application (col 3, ln 42-44). The structural material may be coated on one or both sides with a water repellent material, an algaecide, an antifungal material, an antibacterial material, a surface friction agent, a flame retardant material, and a coloring dye (col 3, ln 54-67 to col 4, ln 1-3). The structural article contains 10-25% by weight glass fibers (claim 13) and the coating comprises nearly 85% by weight of the article (col 3, ln 17-18). Ahluwalia discloses the claimed invention except for the teaching that a metallic component is adhered to the coated substrate on one or both sides of the substrate.

Langer (US 4,600,634) discloses flexible fibrous endothermic sheet materials for fire protection. The flexible sheet is made of fiberglass and acrylic binder and is useful in building construction (abstract). Fillers useful in the composition include alumina trihydrate (col 3, In 59). A backing, comprising an aluminum foil, is added to the backing of the sheet material to give an added degree of strength to the sheet material (col 4, In 8-10). It would have been obvious to one having ordinary skill in the art to have added Langer's aluminum sheet to one or both sides of the coated substrate of Ahluwalia, motivated by the desire to create a structural article with increased strength and durability.

Response to Arguments

4. Applicant's arguments with respect to claims 1-21 have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ula C. Ruddock whose telephone number is 571-272-1481. The examiner

can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel H. Morris can be reached on 571-272-1478. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

UCR WUN

Wa Ruddou

Ula C. Ruddock

Primary Examiner

Tech Center 1700

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